

# Foreword

## How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

## For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado	2490 West 26th Ave., Denver, CO 80211
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 97102
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	1201 Terminal Way, Room 219, Reno, NV 89502
Oregon	1220 Southwest 3rd Ave., Room 1640, Portland, OR 97208
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82601

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

# Utah Water Supply Outlook

and

Federal – State – Private  
Cooperative Snow Surveys

## **Issued by**

Wilson Scaling  
Chief  
Soil Conservation Service  
Washington, D. C.

## **Released by**

Francis T. Holt  
State Conservationist  
Soil Conservation Service  
Salt Lake City, Utah

## **In cooperation with**

Utah State Department of Natural Resources  
Robert L. Morgan                      D. Larry Anderson  
State Engineer                      Director  
Division of Water Rights      Division of Water Resources

## **Prepared by**

Jon G. Werner  
Snow Survey Supervisor  
Soil Conservation Service  
125 So. State St., Fed. Bldg.  
P. O. Box 11350  
Salt Lake City, Utah 84147

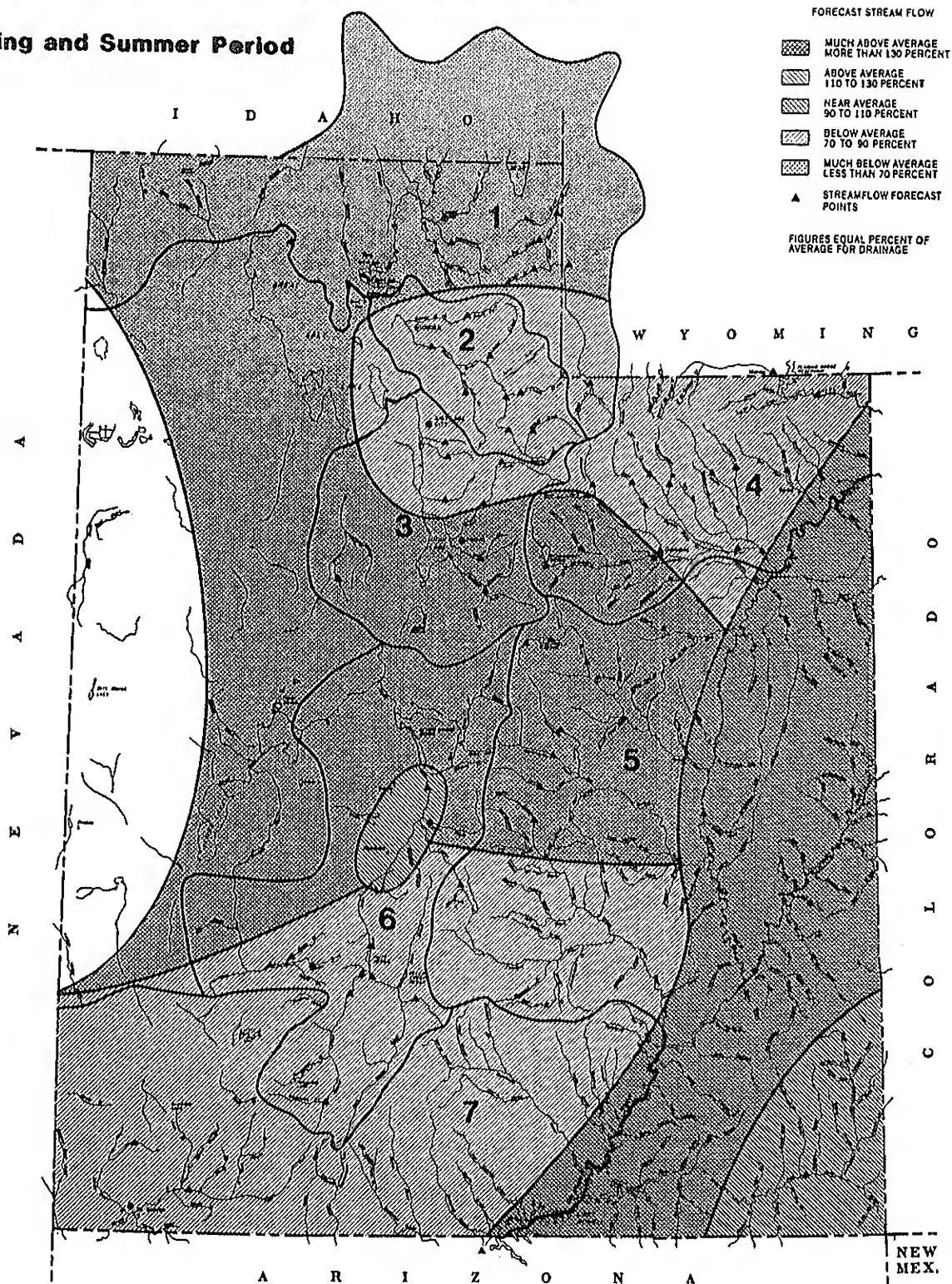
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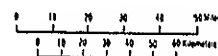
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# Streamflow Prospects for Utah

Spring and Summer Period



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## GENERAL OUTLOOK

### SUMMARY:

Poor snowpack conditions continue to darken prospects for good water supplies in Utah this year. February 1st, reports averaged across the state show only 57% of usual amounts. Streamflow forecasts remain below normal with a few exceptions.

### SNOWPACK:

The average snow accumulation in Utah on February 1st, is 64% of the peak which usually occurs near April 1st. With only 36% of that April 1st, average peak snowpack on the ground, only two months remaining and droughty weather trends it is unlikely that the snowpack can catch up to normal by April 1st. Nearly twice usual snowfall during February and March would be needed. The Uintas remain highest at 64% while conditions are driest in the southwestern part of the State where snowpack is 44% of average. Snow reports at 10 stations were near or below the minimum on record. Heavy spring snow and rains will be needed to overcome effects of current shortages.

### PRECIPITATION:

Precipitation for mountain stations was generally less than normal for the month of January. Valley precipitation was generally normal except for near normal reports in northeastern Utah and Tooele areas. Southern Utah experienced variable amounts of January precipitation. Seasonal precipitation is 40-80% of normal with areas near the Colorado border near normal.

### RESERVOIRS:

Water stored in 25 major reservoirs is generally in very good supply averaging 29% above normal volumes for February 1st. Southwestern Utah reservoirs remain in poor condition with the added concern that earlier than usual release may be necessary to supplement the light runoff expected.

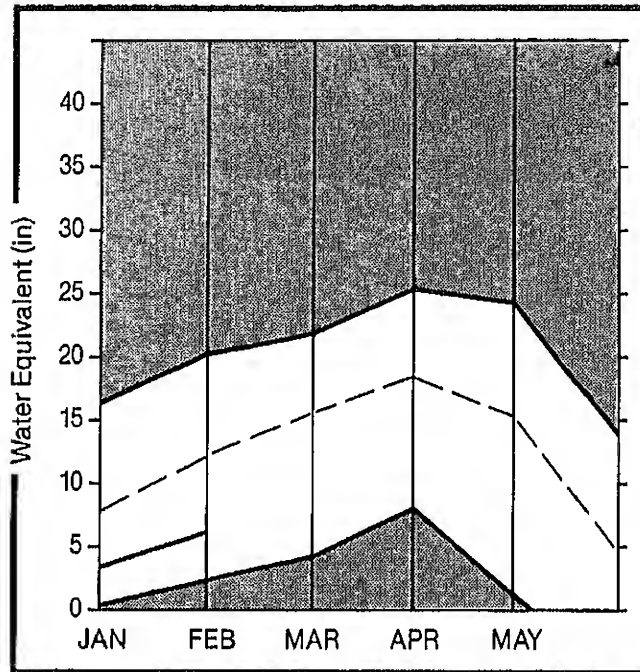
### STREAMFLOW:

Streamflow forecast values are generally below average. Some are as low as 37% in the Sevier and Beaver River Basins. A few streams in some basins are near or above normal. Utah Lake Inflow and City Creek along the Wasatch front are 105 and 101% of average respectively. Forecasts elsewhere are in the 60-80% of average range.





*Forecasts prepared for this bulletin represent cooperative efforts of the Soil Conservation Service and the National Weather Service in an effort to provide the best possible service to water users and managers.*

# Bear River Basin

Mountain snowpack\* (Inches)



\*Based on selected stations

Maximum		Average	
Minimum		Current	

## WATER SUPPLY OUTLOOK:

Snowpack on the Bear River watershed is only half of normal for February 1. The Logan River drainage has 42% of average water content. Bear River Basin snowpack increased only 60% as much as usual during January as a result of below normal precipitation. Streamflow forecasts are down from the levels forecast last month. Forecasts now range from 27 to 75% of average. Reservoir storage is well above average for this time of year, a factor that will gain more importance if below normal precipitation persists.

For more information contact your local Soil Conservation Service office:  
 Tremonton Field Office 801-257-5403  
 Logan Field Office 801-753-5616

# BEAR RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
BEAR RIVER near UT-WY Stateline	APR-JUL	116.0	87.0	75	118.0	102	59.0	51
BEAR near Woodruff	APR-JUL	144.0	86.0	60	155.0	108	33.0	23
WOODRUFF CREEK near Woodruff	APR-JUL	17.3	9.5	55	14.0	81	5.0	29
BIG CREEK near Randolph	APR-JUL	5.3	3.0	57	6.0	113	1.0	19
BEAR near Randolph	APR-JUL	126.0	70.0	56	147.0	117	30.0	24
THOMAS FORK near Stateline	APR-SEP	37.0	10.0	27	20.0	54	5.0	14
SMITHS FORK near Border	APR-SEP	122.0	65.0	53	97.0	80	33.0	27
BEAR RIVER near Harer	APR-SEP	326.0	140.0	43	254.0	78	45.0	14
LOGAN RIVER near Logan	APR-JUL	122.0	75.0	61	104.0	85	48.0	39
BLACKSMITH FORK near Hyrum	APR-JUL	57.0	32.0	56	57.0	100	11.0	19
LITTLE BEAR RIVER near Paradise	APR-JUN	42.0	25.0	60	49.0	117	10.0	24
CUB RIVER near Preston	APR-JUL	46.8	28.0	60	54.0	115	10.0	21

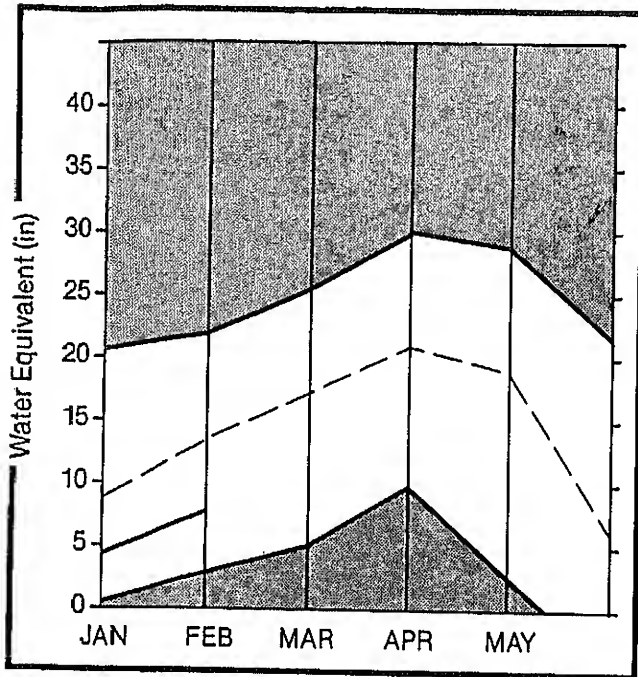
RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
BEAR LAKE	1421.0	1052.9	1057.7	992.5	BEAR RIVER, UPPER IN UTAH	6	43	49
HYRUM	15.3	10.9	10.3	10.3	BEAR RIVER, LOWER IN UTAH	8	45	45
PORCUPINE	11.3	10.5	7.0	2.9	BEAR RIVER DRAINAGE IN UT	13	44	46
WOODRUFF NARROWS		NO REPORT			BEAR RIVER, UPPER (above	12	51	54
WOODRUFF CREEK	3.5	3.1	1.7	---	BEAR RIVER, LOWER (below	14	45	47
					BEAR RIVER DRAINAGE	24	47	50
					LOGAN RIVER	5	44	42
					RAFT RIVER	0	0	0
					BEAR RIVER BASIN	26	47	50

- 1 - Reas. max, and reas. min, forecasts are for 5% and 95% exceedance levels and also (2) below.  
2 - Corrected for upstream diversions or changes in reservoir storage.  
The average is computed for the 1961-85 base period.



# Weber & Ogden Watersheds

Mountain snowpack\* (inches)



\*Based on selected stations

Maximum  Average   
Minimum  Current 

## WATER SUPPLY OUTLOOK:

February 1 snowpack on the Weber River watershed is only 60% of average. During January the snowpack increased only about 75% of normal which leaves the snowpack at a level slightly less than is normal for the beginning of January. Streamflow forecasts now range from 57 to 80% of the April-June average. Most Weber Basin forecasts decreased from the volumes forecast last month with the exception of the Ogden River which improved slightly. Reservoir storage is 134% of average.

For more information contact your local Soil Conservation Service office:  
Layton Sub Office 801-544-9144

# WEBER & OGDEN WATERSHEDS in Utah

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
WEBER RIVER near Oakley	APR-JUN	107.0	75.0	70	108.0	101	45.0	42
ROCKPORT RESERVOIR inflow	APR-JUN	120.0	75.0	63	128.0	107	31.0	26
CHALK CREEK near Coalville	APR-JUN	41.0	28.0	68	44.0	107	13.0	32
WEBER RIVER near Coalville	APR-JUN	127.0	73.0	57	120.0	94	32.0	25
LOST CREEK near Croyden	APR-JUN	15.6	11.0	71	19.0	122	3.0	19
EAST CANYON CREEK near Morgan	APR-JUN	29.0	20.0	69	33.0	114	8.0	28
HARDSCRABBLE CREEK near Porterville	APR-JUN	18.4	14.0	76	26.0	141	4.0	22
SOUTH FORK OGDEN RIVER near Huntsvil	APR-JUN	58.0	43.0	74	62.0	107	24.0	41
PINEVIEW RESERVOIR inflow	APR-JUN	122.0	77.0	63	129.0	106	62.0	51
WHEELER CREEK near Huntsville	APR-JUL	6.5	5.2	80	7.0	108	3.0	46
ECHO RESERVOIR inflow	APR-JUN	163.0	104.0	64	164.0	101	52.0	32
WEBER RIVER at Gateway	APR-JUN	328.0	190.0	58	298.0	91	88.0	27
FARMINGTON CREEK near Farmington	APR-JUL	8.2	5.7	70	11.0	134	2.0	24

## RESERVOIR STORAGE

(1000AF)

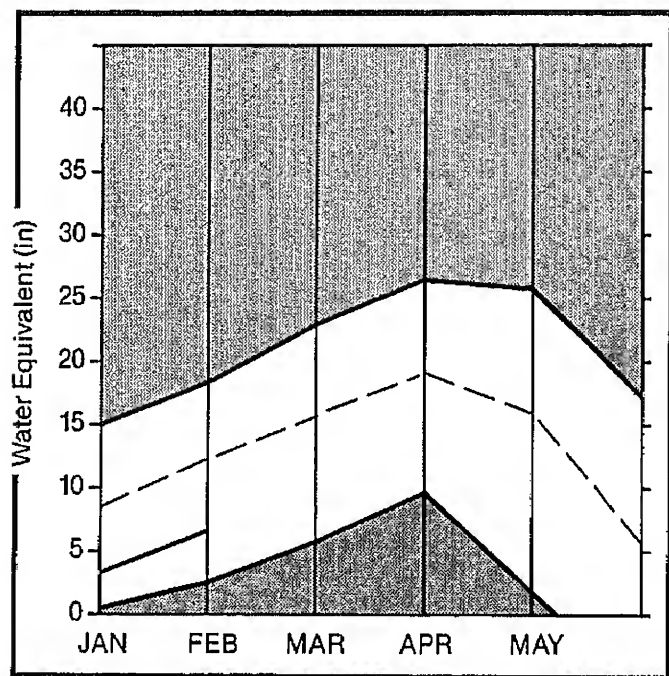
## WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS %	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
CAUSEY	6.9	4.1	1.8	2.2	OGDEN RIVER	4	57	63
EAST CANYON	48.1	41.9	41.4	34.7	WEBER RIVER	13	51	89
ECHO	73.9	62.8	58.6	45.8	WEBER & OGDEN WATERSHEDS	17	52	60
LOST CREEK	20.0	14.5	14.9	13.1				
PINEVIEW	110.1	67.8	75.2	49.6				
ROCKPORT	60.9	44.3	34.6	31.9				
HILLARD BAY	165.5	151.5	148.6	110.6				

- 1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.
- 2 - Corrected for upstream diversions or changes in reservoir storage. The average is computed for the 1961-85 base period.

# Utah Lake, Jordan River & Tooele Valley

Mountain snowpack\* (inches)



\*Based on selected stations

Maximum  Average   
Minimum  Current 

## WATER SUPPLY OUTLOOK:

February 1 snowpack ranges from 41% on the Provo River to 78% on Tooele Valley watersheds. Jordan River tributary watersheds have 72% of normal water content in the snowpack. Snowpack accumulation in the Utah Lake, Jordan River and Tooele Valley area, as a whole, is lagging about two months behind normal this year. Streamflow forecasts now range from 56% for Hobbie Creek to 105% for Utah Lake Inflow. Reservoir storage is above average for those reservoirs having established averages.

For more information contact your local Soil Conservation Service office.  
Midvale Field Office 801-524-4373  
Provo Field Office 801-377-5580

# UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

## STREAMFLOW FORECASTS

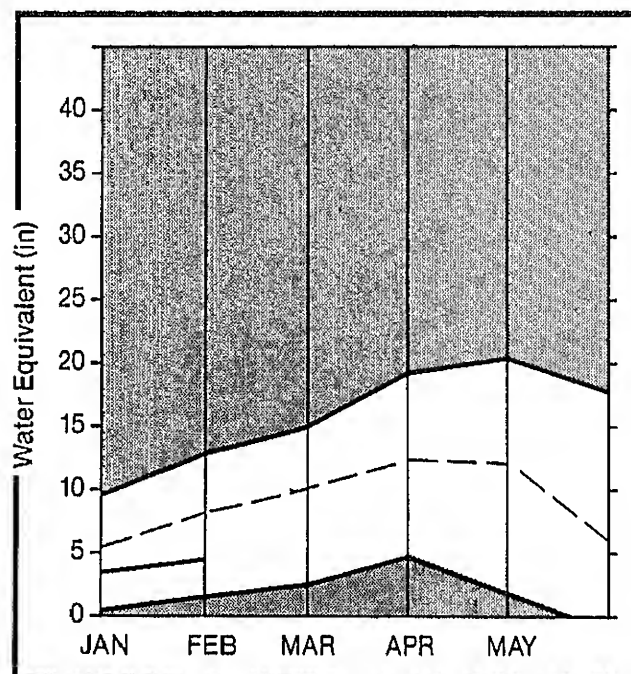
FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
PROVO near Hailstone	APR-JUL	113.0	85.0	75	126.0	112	50.0	44
PROVO below Deer Creek Dam	APR-JUL	133.0	90.0	68	134.0	101	38.0	29
AMERICAN FORK near American Fk.	APR-JUL	34.0	28.0	82	36.0	106	22.0	65
HOBBLE CREEK near Springville	APR-JUL	23.3	13.0	56				
STRAWBERRY RESERVOIR inflow	APR-JUL	60.0	34.0	57	48.0	80	17.0	28
PAYSON CREEK near Payson	APR-JUL	7.8	4.5	62				
UTAH LAKE inflow	APR-JUL	295.0	310.0	105	410.0	139	204.0	69
LITTLE COTTONWOOD CRK near SLC	APR-JUL	41.0	33.0	80	40.0	98	25.0	61
BIG COTTONWOOD CRK near SLC	APR-JUL	39.0	38.0	97	44.0	113	31.0	79
PARLEY'S CREEK near SLC	APR-JUL	17.0	13.2	78	19.0	112	8.0	47
HILL CREEK near SLC	APR-JUL	6.9	7.0	101	10.0	145	5.0	72
EMIGRATION CREEK near SLC	APR-JUL	4.6	3.1	67				
CITY CREEK near SLC	APR-JUL	9.0	6.6	73	9.0	100	5.0	56
SETTLEMENT CREEK near Tooele	APR-JUL	2.3	1.8	78	3.0	130	1.0	43
SOUTH WILLOW CREEK near Grantsville	APR-JUL	3.0	1.9	63	4.0	133	1.0	33
VERNON CREEK near Vernon	APR-JUN	1.2	0.2	60	1.5	120	0.2	19

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
DEER CREEK	149.7	121.0	134.0	95.3	PROVO RIVER & UTAH LAKE	10	39	40
GRANTSVILLE	3.3	2.6	1.9	---	PROVO RIVER	5	37	41
SETTLEMENT CREEK	1.0	0.8	0.8	0.5	JORDAN RIVER & GREAT SALT	5	77	72
STRAWBERRY-ENLARGED	951.4	687.0	509.0	---	TOOELE VALLEY WATERSHEDS	4	82	78
UTAH LAKE	883.9	893.2	1002.0	448.4	UTAH LAKE, JORDAN RIVER &	19	58	57
VERNON CREEK	0.6	0.3	0.2	0.5				

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.  
 2 - Corrected for upstream diversions or changes in reservoir storage.  
 The average is computed for the 1961-85 base period.

# 

Mountain snowpack\* (Inches)



\*Based on selected stations

Maximum  Average   
Minimum  Current 

## 

February 1 snowpack on the Uintas is about one month behind normal accumulation when taken as a whole. The north slope, however, is near normal with Sheep Creek at 105% and Black's Fork at 89%. The south slope, on the other hand, is well below average ranging from 74 to 36% of the February 1 average. Streamflow forecasts have decreased from last month and now range from 54 to 87% of average. Reservoir storage is excellent. End of January storage was 90% of capacity and 142% of average.

For more information contact your local Soil Conservation Service office.  
Roosevelt Field Office 801-722-4621

# UINTAH BASIN & DAGGET SCD'S

## STREAMFLOW FORECASTS

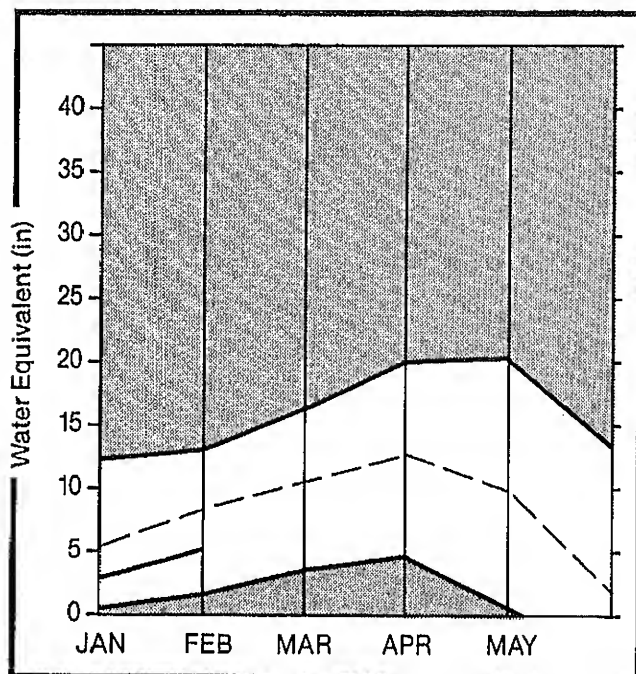
FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
DUCHESNE RIVER near Tabiona	APR-JUL	105.0	81.0	77	104.0	99	55.0	52
DUCHESNE RIVER near Duchesne	APR-JUL	189.0	140.0	74	189.0	100	93.0	49
STRAWBERRY RIVER at Duchesne	APR-JUL	69.0	40.0	58	58.0	84	23.0	33
ROCK CREEK near Mountain Home	APR-JUL	95.0	76.0	80	104.0	109	55.0	58
CURRENT CREEK near Fruitland	APR-JUL	20.0	11.0	55	16.0	80	6.0	30
LAKEFORK RIVER near Mountain Home	APR-JUL	70.0	55.0	79	76.0	109	37.0	53
YELLOWSTONE RIVER near Altonah	APR-JUL	66.0	50.0	76	73.0	111	27.0	41
DUCHESNE near Myton	APR-JUL	223.0	160.0	72	240.0	108	55.0	25
WHITE ROCKS RIVER near Whiterocks	APR-JUL	60.0	43.0	72	67.0	112	19.0	32
UINTAH RIVER near Neola	APR-JUL	86.0	62.0	72	98.0	114	26.0	30
DUCHESNE near Randlett	APR-JUL	257.0	215.0	84	405.0	158	25.0	10
WEST FORK DUCHESNE RIVER near Hanna	APR-JUL	28.0	15.0	54	23.0	82	7.0	25
HENRY'S FORK near Manila	APR-SEP	51.0	34.0	67	56.0	110	17.0	33
BLACK'S FORK near Millburne	APR-JUL	90.0	71.0	79	105.0	117	41.0	46
FLAMING GORGE RESERVOIR inflow	APR-SEP	1445.0	1250.0	87	1685.0	117	860.0	60
ASHLEY CREEK near Vernal	APR-JUL	32.0	40.0	77	55.0	106	28.0	54

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
FLAMING GORGE	3749.0	3100.4	3014.0	---	UPPER GREEN RIVER in UTAH	9	82 82
MOON LAKE	35.8	26.5	---	15.4	ASHLEY CREEK	2	61 53
RED FLEET	26.0	17.2	20.0	---	BLACK'S FORK RIVER	3	83 89
STEINAKER	33.3	32.1	31.3	19.7	SHEEP CREEK	2	104 105
STARVATION	165.3	152.1	147.0	113.0	DUCHESNE RIVER	15	47 57
STRAWBERRY-ENLARGED	951.4	687.0	509.0	---	LAKE FORK-YELLOWSTONE CRE	3	53 74
					STRAWBERRY RIVER	4	29 36
					UINTAH-WHITEROCKS RIVERS	3	48 58
					UINTAH BASIN & DAGGET SCD	24	56 64

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2 - Corrected for upstream diversions or changes in reservoir storage.  
The average is computed for the 1961-85 base period.

# Carbon, Emery, Wayne, Grand, and San Juan Co.

Mountain snowpack\* (inches)



\*Based on selected stations

Maximum  Average   
Minimum  Current 

## WATER SUPPLY OUTLOOK:

Snowpack on southeastern Utah watersheds, compared to the February 1 average, ranges from well below normal on Muddy Creek at 37% to near average on the La Sal Mountains at 95%. Streamflow forecasts are generally less than estimated a month ago with the exception of Mill Creek near Moab and the forecasts on the San Juan River which increased slightly. Reservoir storage ranges from 105% of average in Joe's Valley to 323% in Mill Site and averages 138% of normal in the four reservoirs of our sample.

For more information contact your local Soil Conservation Service office:  
Price Field Office 801-637-0041



**CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.**

**STREAMFLOW FORECASTS**

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
GOOSEBERRY CREEK near Scofield	APR-JUL	12.0	7.6	63	13.0	108	3.0	25
SCOFIELD RESERVOIR inflow	APR-JUL	46.0	28.0	61	44.0	96	16.0	35
PRICE near Heiner	APR-JUL	78.0	48.0	62				
HUNTINGTON CREEK near Huntington	APR-JUL	55.0	39.0	71	59.0	107	25.0	45
COTTONWOOD CREEK near Orangeville	APR-JUL	47.0	32.0	68	50.0	106	14.0	30
FERRON CREEK near Ferron	APR-JUL	41.0	26.0	63	43.0	105	9.0	22
MUDDY CREEK near Emery	APR-JUL	21.0	12.5	60	23.0	110	2.0	10
COLORADO near Cisco, UT	APR-JUL	3443.0	3800.0	110	5490.0	159	2500.0	73
GREEN near Green Rv., UT	APR-JUL	3176.0	3000.0	94	4050.0	128	1950.0	61
HILL CREEK near Moab	APR-JUL	5.5	5.2	95	8.0	145	3.0	55
NAVAJO RESERVOIR inflow	APR-JUL	769.0	875.0	115	1265.0	166	570.0	75
SAN JUAN near Bluff, UT	APR-JUL	1091.0	1300.0	119	1920.0	176	800.0	73
SEVEN MILE CREEK near Fish Lake	APR-JUL	6.5	5.0	77	8.0	123	2.0	31

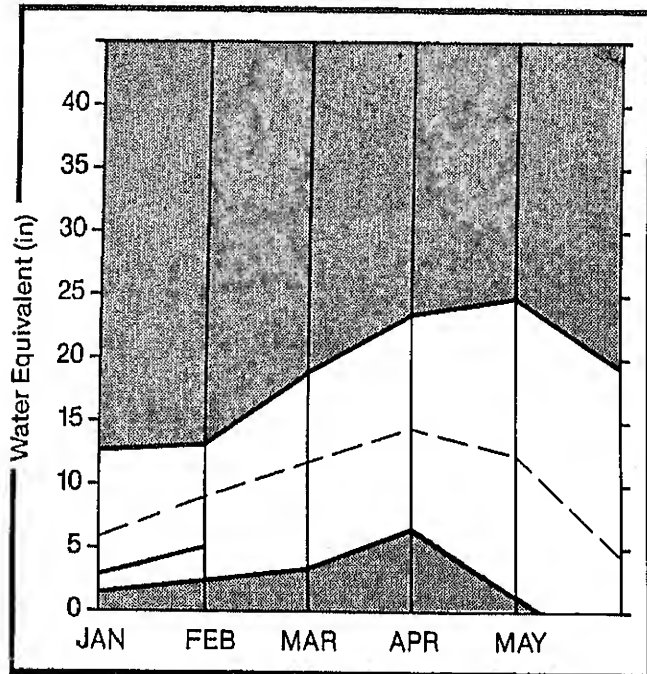
RESERVOIR STORAGE (1000AF)		WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR    LAST YEAR    AVG.	WATERSHED	NO. COURSES AVG'D    THIS YEAR AS % OF LAST YR.    AVERAGE
HUNTINGTON NORTH	3.9	3.5    2.8    2.3	PRICE RIVER	3    38    39
JOE'S VALLEY	54.6	45.9    45.0    43.6	SAN RAFAEL RIVER	7    42    46
KEN'S LAKE	2.3	0.7    1.1    --	MUDDY RIVER	2    32    37
HILL SITE	16.7	11.3    10.3    3.5	FREMONT RIVER	4    94    91
SCOFIELD	65.8	50.6    46.5    31.3	LASAL MOUNTAINS	2    85    75
			BLUE MOUNTAINS	2    74    74
			CARBON, EMERY, WAYNE, GRA	21    58    62

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.  
2 - Corrected for upstream diversions or changes in reservoir storage.  
The average is computed for the 1961-85 base period.



# Sevier & Beaver River Basins

Mountain snowpack\* (inches)



\*Based on selected stations

Maximum  Average   
Minimum  Current 

## WATER SUPPLY OUTLOOK:

Modest snowpack increases during January have not overcome this year's persistent poor snowpack. February 1 snowpack is reported 55% of average, an increase of 7% as compared to average from Jan 1st. Streamflow forecasts range from 37% of ave. on Oak Creek to a high of 157% of average on the Sevier near Gunnison, having dropped an average of 10% since Jan. 1st. Reservoir storage is currently 79% above the usual.

For more information contact your local Soil Conservation Service office:  
Richfield Field Office 801-896-6261  
Fillmore Field Office 801-743-6656

# SEVIER & BEAVER RIVER BASINS

## STREAMFLOW FORECASTS

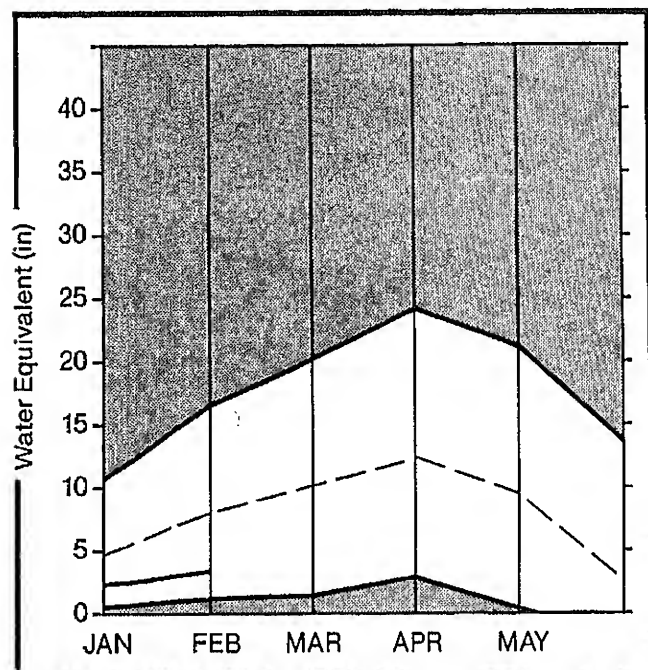
FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
SEVIER at Hatch	APR-JUL	52.0	43.0	83	67.0	129	23.0	44
SEVIER near Circleville	APR-JUL	44.0	40.0	91				
SEVIER near Kingston	APR-JUL	34.0	25.0	74	58.0	171	10.0	29
ANTIMONY CREEK near Antimony	APR-JUL	8.9	7.1	80				
E F SEVIER near Kingston	APR-JUL	24.0	21.0	88	39.0	163	12.0	50
SEVIER blw Piute Dam	APR-JUL	56.0	46.0	82	95.0	170	10.0	18
CLEAR CREEK near Sevier	APR-JUL	22.0	13.1	60				
SIGURD to GUNNISON	APR-JUL	44.0	75.0	170	121.0	275	35.0	80
KINGSTON to VERMILLION DAM	APR-JUN	40.0	45.0	113				
VERMILLION DAM to GUNNISON	MAR-JUN	54.0	85.0	157				
SALINA CREEK at Salina	APR-JUN	18.2	8.5	47				
SEVIER nr Gunnison	APR-JUL	99.0	110.0	111				
CHALK CREEK near Fillmore	APR-JUL	16.4	7.3	45	15.0	91	3.0	18
CHICKEN CREEK near Levan	APR-JUL	3.5	2.2	63	4.0	114	1.0	29
OAK CREEK near Oak City	APR-JUL	1.6	0.6	37	2.0	125	1.0	62
EPHRAIM CREEK near Ephraim	APR-JUL	25.0	14.0	56				
PLEASANT CREEK near Pleasant	APR-JUL	11.5	11.5	100				
SALT CREEK near Nephi	APR-JUL	13.5	8.1	60	20.0	148	3.0	22
BEAVER RIVER near Beaver	APR-JUL	27.0	19.1	71	37.0	137	6.0	22
NORTH CREEK near Beaver (combined N	APR-JUL	14.6	10.7	73	23.0	158	3.0	21
MINERSVILLE RESERVOIR inflow	APR-JUN	8.9	6.2	70	12.0	135	2.0	22

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
GUNNISON	20.3	20.3	16.8	11.7	UPPER SEVIER RIVER (south	11	70 58
MINERSVILLE (RkyFd)	26.0	18.7	19.1	11.2	EAST FORK SEVIER RIVER	4	79 67
OTTER CREEK	52.6	50.4	50.2	27.5	SOUTH FORK SEVIER RIVER	7	45 54
PIUTE	71.8	65.5	62.4	36.9	LOWER SEVIER RIVER (inclu	12	50 52
SEVIER BRIDGE	236.0	219.2	206.2	101.1	BEAVER RIVER	3	40 58
PANQUITCH LAKE	22.3	17.2	19.1	—	SEVIER & BEAVER RIVER BAS	26	53 55





1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.  
2 - Corrected for upstream diversions or changes in reservoir storage.  
The average is computed for the 1961-85 base period.

## E. Garfield, Kane, Washington, & Iron Co.

Mountain snowpack\* (Inches)



\*Based on selected stations

Maximum		Average	
Minimum		Current	

### WATER SUPPLY OUTLOOK:

Snowpack reported on February 1st, continues in a range of extremes in this part of Utah. The Escalante drainage is 56% above average while the Virgin River is 65% below the February 1 average water content. All other watersheds have one half or less of usual. Predictions of spring/summer runoff volumes are 5% above normal for Lake Powell while others are about 30% below normal.

For more information contact your local Soil Conservation Service office:  
Cedar City Field Office 801-586-2429

**E. GARFIELD, KANE, WASHINGTON, & IRON Co.**

**STREAMFLOW FORECASTS**

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
VIRGIN near Hurricane	APR-JUN	68.0	48.0	71	80.0	118	17.0	25
SANTA CLARA near Pine Valley	APR-JUN	5.0	3.5	70				
COAL CREEK near Cedar City	APR-JUL	20.0	13.1	66	22.0	110	7.0	35
LAKE POWELL inflow	APR-JUL	8086.0	8500.0	105	12000.0	148	5430.0	67

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	XX USEABLE STORAGE XX THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
GUNLOCK	10.4	5.4	---	---	VIRGIN RIVER	5	48 35
LAKE POWELL	25002.0	21778.0	22750.0	---	PARDHAN	4	76 56
QUAIL CREEK		NO REPORT			ENTERPRISE TO NEW HARMONY	2	125 53
UPPER ENTERPRISE	10.0	2.9	---	---	COAL CREEK	3	52 42
LOWER ENTERPRISE	2.6	0.6	---	---	ESCALANTE RIVER	2	169 154
					E. GARFIELD, KANE, WASHIN	12	60 44

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.  
 2 - Corrected for upstream diversions or changes in reservoir storage.  
 The average is computed for the 1961-85 base period.

# SNOW DATA MEASUREMENTS

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1941-85
ASHLEY TWIN LAKES	10500	no data	-	-	-	10.5
ATWOOD LAKE	10500	01/26	-	5.6E	9.5	7.5
BEAVER CREEK DIVIDE	8280	01/26	-	2.1E	8.7	8.9
BEAVER DAMS	8000	01/26	-	1.4E	6.9	7.7
BEN LOMOND PEAK	8000	01/26	-	18.4E	30.1	23.7
BEN LOMOND TRAIL	6000	01/26	-	7.4E	15.4	12.5
BEVAN'S CABIN	6450	02/02	25	7.6	6.3	5.5
BIG FLAT	10290	01/26	-	8.0E	16.8	11.2
BIRCH CROSSING	8100	01/26	12	1.7	3.7	4.9
BLACK'S FLAT-U.M. CK	9400	01/26	-	5.2E	7.1	7.3
BLACK'S FORK	9200	01/26	-	3.5E	10.0	8.4
BLACK'S FORK GS-EF	9340	01/26	-	4.9E	5.9	6.0
BLACK'S FORK JUNCTN	8930	01/26	-	4.8E	6.0	6.4
BOX CREEK	9300	01/26	-	2.8E	7.3	8.3
BRIAN HEAD	10000	01/26	-	8.0E	9.9	13.0
BRIGHTON	8750	02/02	47	13.9	-	22.9
BROWN DUCK RIDGE	10600	01/26	-	11.3E	15.5	13.2
BRYCE CANYON	8000	01/27	12	1.9E	1.8	3.4
BUCK FLAT	9800	01/26	-	5.0E	12.1	11.0
BUCK PASTURE	9700	no data	-	-	-	11.8
BUCKBOARD FLAT	9000	01/26	25	7.1	9.0	8.6
BUG LAKE	7950	01/26	-	7.1E	12.8	12.8
BURT'S-MILLER RANCH	7900	01/26	-	2.0E	3.9	3.7
CAMP JACKSON	8600	01/26	25	6.2	8.4	9.3
CASTLE VALLEY	9580	01/26	-	4.8E	6.7	8.1
CHALK CREEK #1	9100	01/26	-	10.1E	18.8	14.8
CHALK CREEK #2	8200	01/26	-	6.7E	11.1	9.6
CHALK CREEK #3	7500	01/26	-	3.4E	6.2	5.5
CHEPETA	10300	01/26	-	5.9E	11.6	9.1
CHEPETA-WHITERKS. LK	10350	no data	-	-	-	9.6
CLEAR CREEK MEADOWS	9420	no data	-	-	-	15.2
CLEAR CREEK RIDGE #1	9200	01/26	-	5.2E	11.1	12.5
CLEAR CREEK RIDGE #2	8000	01/26	-	3.5E	8.4	9.8
CLEAR CREEK RIDGE #3	6600	01/26	-	1.9E	5.0	5.7
CURRENT CREEK	8000	01/26	-	0.3E	9.7	7.4
DANIELS-STRAWBERRY	8000	01/26	-	2.0E	11.9	10.2
DESERET PEAK	9250	01/26	-	8.9E	-	17.5
DILL'S CAMP	9200	01/26	-	2.6E	9.0	7.9
DONKEY RESERVOIR	9800	01/26	-	8.8E	4.4	4.8
DRY BREAD POND	8350	01/26	-	6.6E	9.3	12.2
DUCK CREEK R.S.	8700	01/26	-	3.8E	6.6	8.8
EAST SHINGLE LAKE	9800	no data	-	-	-	18.4
FARMINGTON CANYON	8000	01/26	-	10.3E	22.7	19.7
FARMINGTON CANYON L.	6950	01/26	-	8.4E	17.5	14.9
FARNSWORTH LAKE	9600	01/26	-	9.3E	11.1	11.9
FISH LAKE	8700	01/26	-	3.8E	5.6	5.6
FIVE POINT LAKE	11000	01/26	-	7.9E	9.1	10.1
G.B.R.C. HEADQUARTER	8700	01/26	-	5.8E	10.8	10.4
G.B.R.C. MEADOWS	10000	01/26	-	8.7E	14.4	14.4
GARDEN CITY SUMMIT	7600	01/26	-	5.1E	10.7	11.8
GEORGE CREEK	8840	no data	-	-	-	-
GEORGE PEAK	9000	no data	-	-	-	18.2
GOOSEBERRY R.S.	8000	01/26	-	7.4E	8.0	7.4
HARDSCRABBLE	6700	01/26	-	4.2E	16.1	13.5
HARRIS FLAT	7700	01/26	-	1.5E	3.8	5.9
HAYDEN FORK	9400	01/26	-	5.4E	10.1	9.8
HENRY'S FORK	10000	no data	-	-	-	9.5
HEWINTA G.S.	9500	01/26	-	4.9E	6.0	6.1
HOLE-IN-THE-ROCK	9150	01/26	-	2.9E	4.0	4.0
HOLE-IN-THE-ROCK GS	8300	no data	-	-	-	1.7
HICKERSON PARK	9100	01/26	-	4.9E	3.8	5.0
HOBBLE CREEK SUMMIT	7420	01/26	-	4.2E	11.9	10.2
HORSE RIDGE	8260	01/26	-	8.8E	17.7	14.3
HUNTINGTON-HORSESHOE	9800	01/26	-	9.5E	22.5	16.1

# SNOW DATA MEASUREMENTS (cont.)

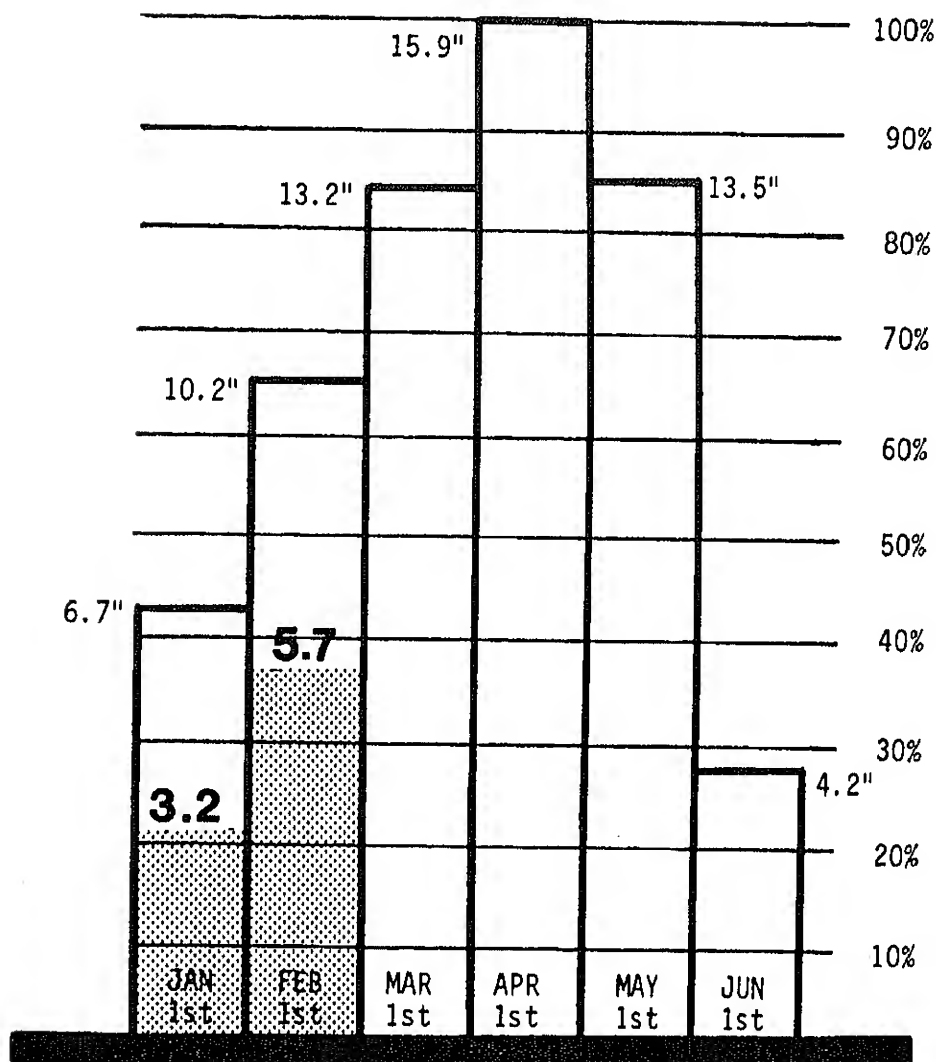
SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
INDIAN CANYON	9100	01/26	-	5.8E	8.7	8.4
JOHNSON VALLEY	8850	01/26	-	2.9E	4.9	5.0
KILFOIL CREEK	7300	01/26	-	6.1E	12.3	9.8
KIMBERLY MINE (UPPER)	9300	01/26	-	8.0E	11.3	9.8
KING'S CABIN (UPPER)	8730	01/26	-	4.3E	5.7	6.9
KLONDIKE NARROWS	7400	01/26	-	5.6E	12.6	13.4
KOLOB-CRYSTAL	9250	01/26	-	4.1E	10.9	13.9
LAKEFORK BASIN	11100	01/26	-	9.6E	11.6	13.2
LAKEFORK MOUNTAIN #1	10200	01/26	-	5.3E	11.6	7.2
LAKEFORK MOUNTAIN #3	8400	01/26	-	1.8E	7.5	4.6
LAMBS CANYON	7400	01/27	31	7.8	11.1	11.3
LASAL MOUNTAIN LOWER	8800	01/27	22	6.0	6.4	6.5
LASAL MOUNTAIN (UPP)	9850	01/26	41	10.8	13.4	11.1
LIGHTNING LAKE	10500	01/26	-	9.4E	19.5	15.2
LILY LAKE	9050	01/26	-	5.2E	12.9	9.6
LITTLE BEAR (LOWER)	6000	01/26	-	4.0E	9.9	7.7
LITTLE BEAR (UPPER)	6550	01/26	-	4.5E	11.3	8.7
LITTLE GRASSY CREEK	6100	01/26	-	1.0E	0.0	3.6
LONG FLAT	8000	01/26	-	3.5E	3.6	4.9
LONG VALLEY JCT.	7500	01/26	-	0.4E	2.3	4.3
LOST CREEK RESERVOIR	6130	01/26	-	2.1E	6.1	4.1
MAMMOTH-COTTONWOOD	8800	01/26	-	5.6E	19.5	14.0
MERCHANT VALLEY (UP)	8750	01/26	-	1.9E	10.5	7.7
MIDDLE BEAVER CREEK	8650	no data	-	-	-	3.0
MIDDLE CANYON	7000	02/02	33	8.8	8.9	8.7
MIDWAY VALLEY	9800	01/26	-	9.0E	10.9	13.4
MILL CREEK	6950	01/29	39	10.2	11.5	12.3
MILL D SOUTH FORK	7400	01/29	38	10.0	10.8	13.0
MONTE CRISTO R.S.	8960	01/26	-	6.4E	16.5	16.1
MOSBY MOUNTAIN (LOW)	9500	01/26	-	3.1E	7.7	6.5
MT. BALDY R.S.	9500	01/26	-	7.6E	15.7	15.3
MUD CREEK #2	8600	01/26	-	3.7E	8.0	9.2
OAK CREEK	7760	01/26	-	3.6E	8.4	7.9
ONE MILE SUMMIT	7330	no data	-	-	-	3.8
OTTER LAKE	9600	01/26	-	6.0E	12.9	8.4
PANQUITCH LAKE	8200	01/26	-	1.7E	3.0	4.1
PARADISE PARK	10100	01/26	-	5.3E	10.4	9.2
PARLEY'S CANYON SUM.	7500	01/27	33	8.3	11.4	12.4
PAYSON R.S.	8050	01/26	-	5.2E	11.6	12.2
PICKLE KEG SPRING	9600	01/26	-	4.8E	10.4	10.2
PINE CANYON	8000	01/26	-	7.1E	13.7	13.2
PINE CREEK	8800	01/26	-	3.5E	12.1	11.5
REDDEN MINE LOWER	8500	01/26	-	6.7E	12.7	11.5
RED PINE RIDGE	9200	01/26	-	6.4E	11.3	11.0
REES'S FLAT	7300	01/26	-	4.8E	9.9	8.8
REYNOLDS PARK	10400	no data	-	-	-	10.7
ROCK CREEK	7900	01/26	-	0.7E	7.7	5.7
ROCKY BASIN-SETTLEMT	8900	02/02	45	12.4	15.2	18.9
SEELEY CREEK R.S.	10000	01/26	-	4.0E	11.0	10.3
SERGEANT LAKES	8300	no data	-	-	-	-
SHINGLE MILL	6200	01/27	13	2.9	4.8	6.4
SILVER LAKE (BRIGHT.)	8730	01/29	43	10.6E	15.8	16.1
SMITH & MOREHOUSE	7600	01/26	-	5.2E	9.9	8.9
SNOWBIRD GAD VALLEY	9700	no data	-	-	25.6	24.6
SOAPSTONE R.S.	7800	01/26	-	2.7E	8.0	8.5
SPIRIT LAKE	10300	01/26	-	8.5E	9.1	7.8
SQUAW SPRINGS	9300	01/26	-	1.2E	4.1	4.7
STEEL CREEK PARK	10100	01/26	-	10.7E	12.6	10.5
STILLWATER CAMP	8550	01/26	-	3.9E	7.3	7.0
STRAWBERRY DIVIDE	8400	02/02	25	5.7	16.5	12.8
STUART R.S.	7950	01/26	-	2.0E	6.3	6.2
SUBC RANCH	8200	01/26	10	1.8	4.8	5.8
TALL POLES	8800	01/26	28	4.9	5.8	9.1
THAYNES CANYON	9200	02/03	43	11.5	15.5	-

# SNOW DATA MEASUREMENTS (cont.)

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
THISTLE FLAT	8500	no data			-	9.9
TIMPANOGOS DIVIDE	8140	01/26	-	10.4E	18.0	16.9
TONY GROVE LAKE	8400	01/26	-	9.5E	23.8	24.2
TONY GROVE R.S.	6250	01/26	-	3.3E	9.1	8.9
TRIAL LAKE	9960	01/26	-	7.5E	19.5	16.1
TROUT CREEK	9400	01/26	-	3.1E	6.4	7.0
UPPER JOES VALLEY	8900	01/26	-	3.1E	6.9	7.0
VERNON CREEK	7500	02/02	14	3.1	8.4	7.7
VIPONT	7670	no data			-	10.1
WEBSTER FLAT	9200	01/26	-	1.8E	8.4	10.9
WHITE RIVER #1	8550	01/26	-	3.8E	10.3	9.4
WHITE RIVER #3	7400	01/26	-	2.1E	6.9	6.3
WIDTSOE-ESCALANTE #3	9500	01/26	-	9.8E	6.6	7.1
WRIGLEY CREEK	9000	01/26	-	2.7E	8.3	7.1
YANKEE RESERVOIR	8700	01/26	-	4.1E	5.2	6.1

# Utah Snowpack Progress

## 1987



## Statewide

### NOTE :

Snow water equivalent in inches is compared to the highest seasonal amount ( 100% ). Monthly averages are accumulated by basin/state.

Averages are for the period 1961-1985.





# The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

## State

Utah State University  
Utah State Department of Natural Resources  
Division of Wildlife Resources  
Division of Water Resources  
Division of Water Rights  
Bear River Commissioner  
Price River Commissioner  
Provo River Commissioner  
Sevier River Commissioners  
Spanish Fork River Commissioner  
Utah Lake and Jordan River Commissioner

## Federal

U.S. Department of Agriculture  
Soil Conservation Service  
Forest Service  
U.S. Department of Commerce  
NOAA, National Weather Service  
U.S. Department of Interior  
Bureau of Reclamation  
Geological Survey  
National Park Service

## Municipality

Manti  
Salt Lake City

## Public

Beaver River Water Users Association  
Board of Canal Presidents - Jordan River  
Central Utah Conservancy District  
Emery Canal and Reservoir Company  
Moon Lake Water Users Association  
Ogden River Water Users Association  
Provo River Water Users Association  
Strawberry Water Users Association  
Sevier River Water Users Association  
Weber River Water Users Association  
Weber Basin Conservancy District

Other organizations and individuals furnish  
information for the snow survey reports.  
Their cooperation is gratefully acknowledged.

All programs and services of U.S. Dept.  
of Agriculture are available to everyone  
without regard to race, creed, color, sex,  
age, handicap, or national origin.